

J1059 U.S.  
PTO  
08/03/01

Please type a sign (+) inside this box +

PTO/SB/05 (08-00)

Approved for use through 10/31/2002 OMB 0651-0032  
Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

## UTILITY

## PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

### APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- |  |   |
|--|---|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (in dupl.)<br/><i>(Submit an original, and a duplicate for fee processing)</i></p> <p>2. <input type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>155</u>]<br/><i>(preferred arrangement set forth below)</i><br/>           - Descriptive title of the Invention<br/>           - Cross Reference to Related Applications<br/>           - Statement Regarding Fed sponsored R &amp; D<br/>           - Reference to sequence listing, a table, or a computer program listing appendix<br/>           - Background of the Invention<br/>           - Brief Summary of the Invention<br/>           - Brief Description of the Drawings (<i>if filed</i>)<br/>           - Detailed Description<br/>           - Claim(s)<br/>           - Abstract of the Disclosure</p> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113)<br/>31 Figures - [Total Sheets <u>55</u>]</p> <p>5. <input checked="" type="checkbox"/> Oath or Declaration (unexecuted) [Total Pages <u>2</u>]<br/>           a. <input type="checkbox"/> Executed (original or copy)<br/>           b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br/><i>(for continuation/divisional with Box 17 completed)</i><br/>           i. <input checked="" type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76. (3 pp.)</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (<i>Appendix</i>)<br/> <input checked="" type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission<br/><i>(if applicable, all necessary)</i><br/>           a. <input checked="" type="checkbox"/> Computer Readable Form (CRF)<br/>           b. <input checked="" type="checkbox"/> Specification Sequence Listing on:<br/>           i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or<br/>           ii. <input checked="" type="checkbox"/> paper<br/>           c. <input checked="" type="checkbox"/> Statements verifying identity of above copies</p> |
|--|---|

### ACCOMPANYING APPLICATION PARTS

9.  Assignment Papers (cover sheet and document(s))
10.  37 CFR 3.73(b) Statement  Power of Attorney
11.  English Translation Document (*if applicable*)
12.  Information Disclosure Statement/ Form PTO/SB/08  
 Copies of Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
*(should be specifically itemized)*
15.  Certified copy of Priority Document(s)  
*(if foreign priority is claimed)*
16.  Other:

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76.

Continuation  Divisional  Continuation-in-Part (CIP) of prior application No:  
Prior application information Examiner Group/Art Unit.

For CONTINUATION OR DIVISIONAL APPS only The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts

### 18. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label 22195 or  Correspondence address below

NAME			
ADDRESS			
CITY	STATE	ZIP CODE	
COUNTRY	TELEPHONE	FAX	
NAME (Print/Type)	Registration No. (Attorney/Agent) <u>43,975</u>		
SIGNATURE	Date <u>8/3/01</u>		

r Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL

## for FY 2001

Patent fees are subject to annual revision.

Total amount of payment

\$ 710.00

Complete if Known	
Application Number	To be assigned
Filing Date	August 3, 2001
First Named Inventor	COLEMAN, Timothy A.
Examiner Name	To be assigned
Group Art Unit	To be assigned
Attorney Docket Number	PF112P6

METHOD OF PAYMENT					FEE CALCULATION (continued)																																																																																																																																																																																																		
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: Deposit Account Number <b>08-3425</b> Deposit Account Name <b>Human Genome Sciences, Inc.</b> <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27					3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65 Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25 Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130 Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520 For filing a request for ex parte reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920* Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840* Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55 Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>195 Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>445 Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>695 Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>945 Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155 Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155 Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135 Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510 Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55 Petition to revive -unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>620 Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620 Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220 Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300 Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130 Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50 Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180 Submission of Information Disclosure Statement</td><td></td></tr> <tr><td>581</td><td>40</td><td>481</td><td>40 Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355 Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355 For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>179</td><td>710</td><td>279</td><td>355 Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900 Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="5">Other fee (specify):</td></tr> <tr><td colspan="5">Other fee (specify):</td></tr> <tr><td colspan="5">Other fee (specify):</td></tr> <tr> <td colspan="5"> <b>SUBTOTAL (1)</b> <b>\$ 710.00</b> </td> <td colspan="5"> <b>SUBTOTAL (3)</b> <b>\$ 0.00</b> </td> </tr> <tr> <td colspan="10">** or number previously paid, if greater. For Reissues, see above</td> </tr> <tr> <td colspan="10">* Reduced by Basic Filing Fee Paid</td> </tr> </tbody> </table>					Fee Code	Large Entity Fee (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105	130	205	65 Surcharge - late filing fee or oath		127	50	227	25 Surcharge - late provisional filing fee or cover sheet		139	130	139	130 Non-English specification		147	2,520	147	2,520 For filing a request for ex parte reexamination		112	920*	112	920* Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840* Requesting publication of SIR after Examiner action		115	110	215	55 Extension for reply within first month		116	390	216	195 Extension for reply within second month		117	890	217	445 Extension for reply within third month		118	1,390	218	695 Extension for reply within fourth month		128	1,890	228	945 Extension for reply within fifth month		119	310	219	155 Notice of Appeal		120	310	220	155 Filing a brief in support of an appeal		121	270	221	135 Request for oral hearing		138	1,510	138	1,510 Petition to institute a public use proceeding		140	110	240	55 Petition to revive -unavoidable		141	1,240	241	620 Petition to revive - unintentional		142	1,240	242	620 Utility issue fee (or reissue)		143	440	243	220 Design issue fee		144	600	244	300 Plant issue fee		122	130	122	130 Petitions to the Commissioner		123	50	123	50 Petitions related to provisional applications		126	180	126	180 Submission of Information Disclosure Statement		581	40	481	40 Recording each patent assignment per property (times number of properties)		146	710	246	355 Filing a submission after final rejection (37 CFR 1.129(a))		149	710	249	355 For each additional invention to be examined (37 CFR 1.129(b))		179	710	279	355 Request for Continued Examination (RCE)		169	900	169	900 Request for expedited examination of a design application		Other fee (specify):					Other fee (specify):					Other fee (specify):					<b>SUBTOTAL (1)</b> <b>\$ 710.00</b>					<b>SUBTOTAL (3)</b> <b>\$ 0.00</b>					** or number previously paid, if greater. For Reissues, see above										* Reduced by Basic Filing Fee Paid									
Fee Code	Large Entity Fee (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																																																			
105	130	205	65 Surcharge - late filing fee or oath																																																																																																																																																																																																				
127	50	227	25 Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																				
139	130	139	130 Non-English specification																																																																																																																																																																																																				
147	2,520	147	2,520 For filing a request for ex parte reexamination																																																																																																																																																																																																				
112	920*	112	920* Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																				
113	1,840*	113	1,840* Requesting publication of SIR after Examiner action																																																																																																																																																																																																				
115	110	215	55 Extension for reply within first month																																																																																																																																																																																																				
116	390	216	195 Extension for reply within second month																																																																																																																																																																																																				
117	890	217	445 Extension for reply within third month																																																																																																																																																																																																				
118	1,390	218	695 Extension for reply within fourth month																																																																																																																																																																																																				
128	1,890	228	945 Extension for reply within fifth month																																																																																																																																																																																																				
119	310	219	155 Notice of Appeal																																																																																																																																																																																																				
120	310	220	155 Filing a brief in support of an appeal																																																																																																																																																																																																				
121	270	221	135 Request for oral hearing																																																																																																																																																																																																				
138	1,510	138	1,510 Petition to institute a public use proceeding																																																																																																																																																																																																				
140	110	240	55 Petition to revive -unavoidable																																																																																																																																																																																																				
141	1,240	241	620 Petition to revive - unintentional																																																																																																																																																																																																				
142	1,240	242	620 Utility issue fee (or reissue)																																																																																																																																																																																																				
143	440	243	220 Design issue fee																																																																																																																																																																																																				
144	600	244	300 Plant issue fee																																																																																																																																																																																																				
122	130	122	130 Petitions to the Commissioner																																																																																																																																																																																																				
123	50	123	50 Petitions related to provisional applications																																																																																																																																																																																																				
126	180	126	180 Submission of Information Disclosure Statement																																																																																																																																																																																																				
581	40	481	40 Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																				
146	710	246	355 Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																				
149	710	249	355 For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																				
179	710	279	355 Request for Continued Examination (RCE)																																																																																																																																																																																																				
169	900	169	900 Request for expedited examination of a design application																																																																																																																																																																																																				
Other fee (specify):																																																																																																																																																																																																							
Other fee (specify):																																																																																																																																																																																																							
Other fee (specify):																																																																																																																																																																																																							
<b>SUBTOTAL (1)</b> <b>\$ 710.00</b>					<b>SUBTOTAL (3)</b> <b>\$ 0.00</b>																																																																																																																																																																																																		
** or number previously paid, if greater. For Reissues, see above																																																																																																																																																																																																							
* Reduced by Basic Filing Fee Paid																																																																																																																																																																																																							
2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other*																																																																																																																																																																																																							
FEE CALCULATION																																																																																																																																																																																																							
1. BASIC FILING FEE <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th colspan="3"></th> </tr> <tr> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>710</td><td>201</td><td>355 Utility filing fee</td><td>710.00</td></tr> <tr><td>106</td><td>320</td><td>206</td><td>160 Design filing fee</td><td></td></tr> <tr><td>107</td><td>490</td><td>207</td><td>245 Plant filing fee</td><td></td></tr> <tr><td>108</td><td>710</td><td>208</td><td>355 Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75 Provisional filing fee</td><td></td></tr> </tbody> </table>					Large Entity	Small Entity				Fee Code (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid	101	710	201	355 Utility filing fee	710.00	106	320	206	160 Design filing fee		107	490	207	245 Plant filing fee		108	710	208	355 Reissue filing fee		114	150	214	75 Provisional filing fee		SUBTOTAL (1) <b>\$ 710.00</b>																																																																																																																																																															
Large Entity	Small Entity																																																																																																																																																																																																						
Fee Code (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																			
101	710	201	355 Utility filing fee	710.00																																																																																																																																																																																																			
106	320	206	160 Design filing fee																																																																																																																																																																																																				
107	490	207	245 Plant filing fee																																																																																																																																																																																																				
108	710	208	355 Reissue filing fee																																																																																																																																																																																																				
114	150	214	75 Provisional filing fee																																																																																																																																																																																																				
2. EXTRA CLAIM FEES <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Independent Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>18</td><td>2</td><td>-20*</td><td>0</td><td>\$18.00</td></tr> <tr><td></td><td></td><td>-3*</td><td>0</td><td>\$80.00</td></tr> <tr><td colspan="3"><b>Multiple Dependent</b></td><td><b>\$270.00</b></td><td><b>0.00</b></td></tr> </tbody> </table>					Total Claims	Independent Claims	Extra Claims	Fee from below	Fee Paid	18	2	-20*	0	\$18.00			-3*	0	\$80.00	<b>Multiple Dependent</b>			<b>\$270.00</b>	<b>0.00</b>																																																																																																																																																																															
Total Claims	Independent Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																			
18	2	-20*	0	\$18.00																																																																																																																																																																																																			
		-3*	0	\$80.00																																																																																																																																																																																																			
<b>Multiple Dependent</b>			<b>\$270.00</b>	<b>0.00</b>																																																																																																																																																																																																			
Large Entity <table border="1"> <thead> <tr> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9 Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40 Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135 Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>108</td><td>80</td><td>209</td><td>40 ** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9 ** Reissue claims in excess of 20 and over original patent</td><td></td></tr> </tbody> </table>					Fee Code (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid	103	18	203	9 Claims in excess of 20		102	80	202	40 Independent claims in excess of 3		104	270	204	135 Multiple dependent claim, if not paid		108	80	209	40 ** Reissue independent claims over original patent		110	18	210	9 ** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) <b>\$ 0.00</b>																																																																																																																																																																				
Fee Code (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																			
103	18	203	9 Claims in excess of 20																																																																																																																																																																																																				
102	80	202	40 Independent claims in excess of 3																																																																																																																																																																																																				
104	270	204	135 Multiple dependent claim, if not paid																																																																																																																																																																																																				
108	80	209	40 ** Reissue independent claims over original patent																																																																																																																																																																																																				
110	18	210	9 ** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																				

\*\* or number previously paid, if greater. For Reissues, see above

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) **\$ 0.00**

Submitted By		Complete (if applicable)	
Name (Print/Type)	Michele M. Wales	Registration No.:	43,975
Signature:	<i>Michele M. Wales</i>	Telephone	301-610-5772
		Date:	AUG 13, 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.